

### ABSTRACT

The invention relates to an An acrylic glass plate for using use as an opaque noise protection element in noise protection walls, said the plate measuring a minimum of  $2 \times 2$  m and having a minimum thickness of 8 mm, preferably more than 12 mm. Threads, wherein threads, strips, grids or networks consisting of a material which is incompatible with the acrylic glass are integrated into said the acrylic glass for binding splinters in the event of a fracture of the plate, and the plate comprises between 40 and 80 wt. % of filling materials, in relation to its total weight (calculated without integrated threads, strips, grids or networks). networks); Said filling materials are preferably extender materials consisting of talc and dolomite, optionally and preferably mixed with aluminium hydroxide. The invention also relates to and a method for producing such plates. The highly filled acrylic glass plates represent an economical alternative to other opaque materials, can be perfectly combined with transparent noise protection plates consisting of acrylic glass, and have a sufficient sound reduction factor in spite of a reduced thickness, due to the high surface density thereof. Surprisingly, the highly filled plates enable splinter binding systems to be used, such as nylon threads or steel threads, and belong to class B2 in terms of the fire behaviour thereof, or even fire class B1 if aluminium hydroxide is used as a filling material.